



SEQUENCE LISTING

<110> Bullerdiek, Jörn

<120> Preparation for the Prevention and/or Treatment of a Tissue Change of Mesenchymal Origin

<130> BOH6278P0010US

<140> 09/890,684

<141> 2001-08-03

<150> PCT/DE00/00364

<151> 2000-02-04

<160> 47

<170> PatentIn version 3.1

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<213> Artificial

<220>

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<223> primer HsgB1

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17

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17

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<212> DNA
<213> Adenovirus

<220>
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<223> isolate X765551Ko

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gacgggaaag ggtacaatgt ggccaaatgt aacatgacca aagactgggt cctggttcag 180
atgcttgcac actacaacat tggctaccag ggctttaca tccctgaggg atacaaggat 240
cgcatgtact ccttttcag aaacttccag cctatgagca ggcaggtggg tggatgggtt 300
aattacactg actacaaaagc cgtcaccttac ccataccaac acaacaactc tggctttgt 360
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ctcatcgaa 430

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<212> DNA
<213> Adenovirus

<220>
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<223> isolate M2-3s

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agctggcctg gcaatgacag gctgttggc ccaaatgagt ttgaaatcaa ggcactgtg 120
gacgggaaag ggtacaatgt ggccaaatgt aacatgacca aagactgggt cctggttcag 180
atgcttgcca actacaacat tggctaccag ggctttaca tccctgaggg atacaaggat 240
cgcatgtact ctttttcag aaacttccag cctatgagca ggcaggtgg tcatgagg 300
aattacactg actacaaagc cgtcacctt ccataccaac acaacaactc tggcttgta 360
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ctcatcgaa 430

<210> 17
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<213> Adenovirus

<220>
<221> misc_feature
<223> isolate M7-1s

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agctggcctg gcaatgacag gctgttggc ccaaatgagt ttgaaatcaa ggcactgtg 120
gacgggaaag gatacaacgt ggcacaatgc aacatgacca aagactgggt cctagttcag 180
atgcttgcca actacaacat tggctaccag ggctttaca tccctgaggg atacaaggat 240
cgcatgtact ctttttcag aaacttccag cctatgagca ggcaggtgg tcatgagg 300
aattacactg actacaaagc cgtcacctt ccataccaac acaacaactc tggcttgta 360
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ctcatcgaa 430

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<212> DNA
<213> Adenovirus

<220>
<221> misc_feature
<223> isolate M8-2s

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gacgggaaag gatacaacgt ggcacaatgc aacatgacca aagactgggt cctagttcag 180

atgcttgcca actacaacat tggcttaccag ggctttaca tccctgaggg atacaaggat 240
cgcatgtact ctttttcag aaacttccag cctacgagca ggcaggtgg tcatgaggtt 300
aattacactg actacaaagc cgtcacccat ccataccaac acaacaactc tggctttgta 360
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ctcatcgaa 430

<210> 19
<211> 143
<212> PRT
<213> Adenovirus: isolate X765551Ko

<400> 19
Gly Thr Phe Tyr Leu Asn His Thr Phe Lys Lys Val Ser Ile Met Phe
1 5 10 15
Asp Ser Ser Val Ser Trp Pro Gly Asn Asp Arg Leu Leu Ser Pro Asn
20 25 30
Glu Phe Glu Ile Lys Arg Thr Val Asp Gly Glu Gly Tyr Asn Val Ala
35 40 45
Gln Cys Asn Met Thr Lys Asp Trp Phe Leu Val Gln Met Leu Ala Asn
50 55 60
Tyr Asn Ile Gly Tyr Gln Gly Phe Tyr Ile Pro Glu Gly Tyr Lys Asp
65 70 75 80
Arg Met Tyr Ser Phe Phe Arg Asn Phe Gln Pro Met Ser Arg Gln Val
85 90 95
Val Asp Glu Val Asn Tyr Thr Asp Tyr Lys Ala Val Thr Leu Pro Tyr
100 105 110
Lys His Asn Asn Ser Gly Phe Val Gly Tyr Leu Ala Pro Thr Met Arg
115 120 125
Gln Gly Glu Pro Tyr Pro Ala Asn Tyr Pro Tyr Pro Leu Ile Gly
130 135 140

<210> 20
<211> 143
<212> PRT
<213> Adenovirus: isolate M2-3s

<400> 20
Gly Thr Phe Tyr Leu Asn His Thr Phe Lys Lys Val Ser Ile Met Phe
1 5 10 15
Asp Ser Ser Val Ser Trp Pro Gly Asn Asp Arg Leu Leu Ser Pro Asn
20 25 30
Glu Phe Glu Ile Lys Arg Thr Val Asp Gly Glu Gly Tyr Asn Val Ala
35 40 45
Gln Cys Asn Met Thr Lys Asp Trp Phe Leu Val Gln Met Leu Ala Asn
50 55 60

Tyr Asn Ile Gly Tyr Gln Gly Phe Tyr Ile Pro Glu Gly Tyr Lys Asp
65 70 75 80

Arg Met Tyr Ser Phe Phe Arg Asn Phe Gln Pro Met Ser Arg Gln Val
85 90 95

Val Asp Glu Val Asn Tyr Thr Asp Tyr Lys Ala Val Thr Leu Pro Tyr
100 105 110

Lys His Asn Asn Ser Gly Phe Val Gly Tyr Leu Ala Pro Thr Met Arg
115 120 125

Gln Gly Glu Pro Tyr Pro Ala Asn Tyr Pro Tyr Pro Leu Ile Gly
130 135 140

<210> 21

<211> 143

<212> PRT

<213> Adenovirus: isolate M7-1s

<400> 21

Gly Thr Phe Tyr Leu Asn His Thr Phe Lys Lys Val Ser Ile Met Phe
1 5 10 15

Asp Ser Ser Val Ser Trp Pro Gly Asn Asp Arg Leu Leu Ser Pro Asn
20 25 30

Glu Phe Glu Ile Lys Arg Thr Val Asp Gly Glu Gly Tyr Asn Val Ala
35 40 45

Gln Cys Asn Met Thr Lys Asp Trp Phe Leu Val Gln Met Leu Ala Asn
50 55 60

Tyr Asn Ile Gly Tyr Gln Gly Phe Tyr Ile Pro Glu Gly Tyr Lys Asp
65 70 75 80

Arg Met Tyr Ser Phe Phe Arg Asn Phe Gln Pro Met Ser Arg Gln Val
85 90 95

Val Asp Glu Val Asn Tyr Thr Asp Tyr Lys Ala Val Thr Leu Pro Tyr
100 105 110

Lys His Asn Asn Ser Gly Phe Val Gly Tyr Leu Ala Pro Thr Met Arg
115 120 125

Gln Gly Glu Pro Tyr Pro Ala Asn Tyr Pro Tyr Pro Leu Ile Gly
130 135 140

<210> 22

<211> 143

<212> PRT

<213> Adenovirus: isolate M8-2s

<400> 22

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1 5 10 15

Asp Ser Ser Val Ser Trp Pro Gly Asn Asp Arg Leu Leu Ser Pro Asn
20 25 30

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35							40					45			
Gln	Cys	Asn	Met	Thr	Lys	Asp	Trp	Phe	Leu	Val	Gln	Met	Leu	Ala	Asn
50							55				60				
Tyr	Asn	Ile	Gly	Tyr	Gln	Gly	Phe	Tyr	Ile	Pro	Glu	Gly	Tyr	Lys	Asp
65							70			75			80		
Arg	Met	Tyr	Ser	Phe	Phe	Arg	Asn	Phe	Gln	Pro	Thr	Ser	Arg	Gln	Val
							85			90			95		
Val	Asp	Glu	Val	Asn	Tyr	Thr	Asp	Tyr	Lys	Ala	Val	Thr	Leu	Pro	Tyr
							100			105			110		
Lys	His	Asn	Asn	Ser	Gly	Phe	Val	Gly	Tyr	Leu	Ala	Pro	Thr	Met	Arg
							115			120			125		
Gln	Gly	Glu	Pro	Tyr	Pro	Ala	Asn	Tyr	Pro	Tyr	Pro	Leu	Ile	Gly	
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 <212> DNA
 <213> Adenovirus

<220>
 <221> misc_feature
 <223> isolate AF065068Ko

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 gatgggaaag gatacaatgt ggccaaatgc aacatgacca aagactgggt cctggttcag 180
 atgcttgcca actacaacat tggctaccag ggctttaca tccctgaggg atacaaggat 240
 cgcatgtact ccttttcag aaacttccag cctatgagca ggcaggtggg tgatgaggtt 300
 aattacactg actacaaaagc cgtcacctta ccataatcaac acaacaactc tggcttgta 360
 ggataccttg cgccctactat gagacaaggg gaaccttacc cagccaaatta tccatacccg 420
 ctcatcgaa 430

<210> 24
 <211> 430
 <212> DNA
 <213> Adenovirus

<220>
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 <223> isolate M6-1s

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gatgggaaag gatacaatgt ggccaatgc aacatgacca aagactggtt cctggttcag 180
atgcttgcca actacaacat tggctaccag ggctttaca tccctgaggg atacaaggat 240
cgcatgtact ccttttcag aaacttccag cctatgagca ggcaggtggg tgatgaggtt 300
aattacactg actacaaagc cgtcaccta ccatatcaac acaacaactc tggcttgta 360
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ctcatcgaa 430

<210> 25
<211> 143
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<213> Adenovirus: isolate AF065068Ko

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Asp Ser Ser Val Ser Trp Pro Gly Asn Asp Arg Leu Leu Ser Pro Asn
20 25 30
Glu Phe Glu Ile Lys Arg Thr Val Asp Gly Glu Gly Tyr Asn Val Ala
35 40 45
Gln Cys Asn Met Thr Lys Asp Trp Phe Leu Val Gln Met Leu Ala Asn
50 55 60
Tyr Asn Ile Gly Tyr Lys Gly Phe Tyr Ile Pro Glu Gly Tyr Lys Asp
65 70 75 80
Arg Met Tyr Ser Phe Phe Arg Asn Phe Gln Pro Met Ser Arg Gln Val
85 90 95
Val Asp Glu Val Asn Tyr Thr Asp Tyr Lys Ala Val Thr Leu Pro Tyr
100 105 110
Lys His Asn Asn Ser Gly Phe Val Gly Tyr Leu Ala Pro Thr Met Arg
115 120 125
Gln Gly Glu Pro Tyr Pro Ala Asn Tyr Pro Tyr Pro Leu Ile Gly
130 135 140

<210> 26
<211> 143
<212> PRT
<213> Adenovirus: isolate M6-1s

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1 5 10 15
Asp Ser Ser Val Ser Trp Pro Gly Asn Asp Arg Leu Leu Ser Pro Asn
20 25 30
Glu Phe Glu Ile Lys Arg Thr Val Asp Gly Glu Gly Tyr Asn Val Ala
35 40 45

Gln Cys Asn Met Thr Lys Asp Trp Phe Leu Val Gln Met Leu Ala Asn
· 50 55 60

Tyr Asn Ile Gly Tyr Lys Gly Phe Tyr Ile Pro Glu Gly Tyr Lys Asp
65 70 75 80

Arg Met Tyr Ser Phe Phe Arg Asn Phe Gln Pro Met Ser Arg Gln Val
85 90 95

Val Asp Glu Val Asn Tyr Thr Asp Tyr Lys Ala Val Thr Leu Pro Tyr
100 105 110

Lys His Asn Asn Ser Gly Phe Val Gly Tyr Leu Ala Pro Thr Met Arg
 115 120 125

Gln Gly Glu Pro Tyr Pro Ala Asn Tyr Pro Tyr Pro Leu Ile Gly
 130 135 140

<210> 27
<211> 430
<212> DNA
<213> Adenovirus

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<220>
<221> misc_feature
<223> isolate AF065065Ko
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gacggggaag ggtacaatgt ggcccaatgt aacatgacca aagactggtt cctggttcag 180
atgcttgcac actacaacat tggcttaccag ggcttttaca tccctgaggg atacaaggat 240
cgcatgtact cctttttcag aaacttccag cctatgagca ggcaggtggt tgatgaggtt 300
aattacactg actacaaagc cgtcacctt a cccatccaac acaacaactc tggctttgta 360
gggtatcttg cacctactat gagacaaggg gaaccttacc cagccaaat tccatacccg 420
ctcatcgaa 430

<210> 28
<211> 430
<212> DNA
<213> Adenovirus

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<223> n is any of a.q. c and t
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<222> (148)..(148)
<223> n is any of a,g, c and t

<220>
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<222> (222)..(222)
<223> n is any of a,g, c and t

<220>
<221> misc_feature
<222> (299)..(299)
<223> n is any of a,g, c and t

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gacgggaaag ggtacaatgt ggcccanngt aacatgacca aagactgggt cctggttcag      180
atgcttgcca actacaacat tggctaccag ggctttaca tncctgaggg atacaaggat      240
cgcatgtact ccttttcag aaacttccag cctatgagca ggcaggtggc tgatgaggn      300
aattacactg actacaaagc cggcacctta ccataccaac acaacaactc tggcttgta      360
gggtatcttgcacctactat gagacaaggg gaaccttacc cagccaaatattccatacccg      420
ctcatcgaa                                         430

<210> 29
<211> 430
<212> DNA
<213> Adenovirus

<220>
<221> misc_feature
<223> isolate M5-1s

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agctggcctg gcaatgacag gctgttgcgc ccaaatgagt ttgaaatcaa ggcactgtg      120
gacgggaaag ggtacaatgt ggccaaatgt aacatgacca aagactgggt cctggttcag      180
atgcttgcca actacaacat tggctaccag ggctttaca tccctgaggg atacaaggat      240
cgcatgtact ccttttcag aaacttccag cctatgagca ggcaggtggc tgatgaggtt      300
aattacactg actacaaagc cgtcacctta ccataccaac acaacaactc tggcttgta      360
gggtatcttgcacctactat gagacaaggg gaaccttacc cagccaaatattccatacccg      420
ctcatcgaa                                         430

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<210> 30
<211> 430
<212> DNA
<213> Adenovirus

<220>
<221> misc_feature
<223> isolate M9-2s

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gacgggaaag gatacaacgt ggcacaatgc aacatgacca aagactggtt cctagttcag 180
atgcttgcctt actacaacat tggcttccag ggcttttaca tccctgaggg atacaaggat 240
cgcatgtact ctttttcag aaacttccag cctatgagca ggcaggtggg tgatgagggt 300
aattacactg actacaaagc cgtcacctt ccataccaac acaacaactc tggctttgta 360
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ctcatcgaa 430

<210> 31
<211> 143
<212> PRT
<213> Adenovirus: isolate AF065065Ko

<400> 31
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Asp Ser Ser Val Ser Trp Pro Gly Asn Asp Arg Leu Leu Ser Pro Asn
20 25 30
Glu Phe Glu Ile Lys Arg Thr Val Asp Gly Glu Gly Tyr Asn Val Ala
35 40 45
Gln Cys Asn Met Thr Lys Asp Trp Phe Leu Val Gln Met Leu Ala Asn
50 55 60
Tyr Asn Ile Gly Tyr Gln Gly Phe Tyr Ile Pro Glu Gly Tyr Lys Asp
65 70 75 80
Arg Met Tyr Ser Phe Phe Arg Asn Phe Gln Pro Met Ser Arg Gln Val
85 90 95
Val Asp Glu Val Asn Tyr Thr Asp Tyr Lys Ala Val Thr Leu Pro Tyr
100 105 110
Gln His Asn Asn Ser Gly Phe Val Gly Tyr Leu Ala Pro Thr Met Arg
115 120 125
Gln Gly Glu Pro Tyr Pro Ala Asn Tyr Pro Tyr Pro Leu Ile Gly
130 135 140

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<210> 32
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<213> Adenovirus: isolate M3-3p

<220>
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<223> Xaa is any amino acid

<220>
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<223> Xaa is any amino acid

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<222> (100)..(100)
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<400> 32
Gly Thr Phe Tyr Leu Asn His Thr Phe Lys Lys Val Ser Ile Met Phe
1 5 10 15

Asp Ser Ser Val Ser Trp Pro Gly Asn Asp Arg Leu Leu Ser Pro Asn
20 25 30

Glu Phe Glu Ile Lys Arg Thr Val Asp Gly Glu Gly Tyr Asn Val Ala
35 40 45

Xaa Xaa Asn Met Thr Lys Asp Trp Phe Leu Val Gln Met Leu Ala Asn
50 55 60

Tyr Asn Ile Gly Tyr Gln Gly Phe Tyr Xaa Pro Glu Gly Tyr Lys Asp
65 70 75 80

Arg Met Tyr Ser Phe Phe Arg Asn Phe Gln Pro Met Ser Arg Gln Val
85 90 95

Ala Asp Glu Xaa Asn Tyr Thr Asp Tyr Lys Ala Gly Thr Leu Pro Tyr
100 105 110

Gln His Asn Asn Ser Gly Phe Val Gly Tyr Leu Ala Pro Thr Met Arg
115 120 125

Gln Gly Glu Pro Tyr Pro Ala Asn Tyr Pro Tyr Pro Leu Ile Gly
130 135 140

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<210> 33
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<212> PRT

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<213> Adenovirus: isolate M5-1s

<400> 33

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20 25 30

Glu Phe Glu Ile Lys Arg Thr Val Asp Gly Glu Gly Tyr Asn Val Ala
35 40 45

Gln Cys Asn Met Thr Lys Asp Trp Phe Leu Val Gln Met Leu Ala Asn
50 55 60

Tyr Asn Ile Gly Tyr Gln Gly Phe Tyr Ile Pro Glu Gly Tyr Lys Asp
65 70 75 80

Arg Met Tyr Ser Phe Phe Arg Asn Phe Gln Pro Met Ser Arg Gln Val
85 90 95

Val Asp Glu Val Asn Tyr Thr Asp Tyr Lys Ala Val Thr Leu Pro Tyr
100 105 110

Gln His Asn Asn Ser Gly Phe Val Gly Tyr Leu Ala Pro Thr Met Arg
115 120 125

Gln Gly Glu Pro Tyr Pro Ala Asn Tyr Pro Tyr Pro Leu Ile Gly
130 135 140

<210> 34

<211> 143

<212> PRT

<213> Adenovirus: isolate M9-2s

<400> 34

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1 5 10 15

Asp Ser Ser Val Ser Trp Pro Gly Asn Asp Arg Leu Leu Ser Pro Asn
20 25 30

Glu Phe Glu Ile Lys Arg Thr Val Asp Gly Glu Gly Tyr Asn Val Ala
35 40 45

Gln Cys Asn Met Thr Lys Asp Trp Phe Leu Val Gln Met Leu Ala Asn
50 55 60

Tyr Asn Ile Gly Tyr Gln Gly Phe Tyr Ile Pro Glu Gly Tyr Lys Asp
65 70 75 80

Arg Met Tyr Ser Phe Phe Arg Asn Phe Gln Pro Met Ser Arg Gln Val
85 90 95

Val Asp Glu Val Asn Tyr Thr Asp Tyr Lys Ala Val Thr Leu Pro Tyr
100 105 110

Gln His Asn Asn Ser Gly Phe Val Gly Tyr Leu Ala Pro Thr Met Arg
115 120 125

Gln Gly Glu Pro Tyr Pro Ala Asn Tyr Pro Tyr Pro Leu Ile Gly
130 135 140

<210> 35
<211> 430
<212> DNA
<213> Adenovirus

<220>
<221> misc_feature
<223> isolate M2-3s

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gacggggaaag ggtacaatgt ggccaaatgt aacatgacca aagactgggt cctggttcag 180
atgcttgcca actacaacat tggctaccag ggcttttaca tccctgaggg atacaaggat 240
cgcatgtact ccttttcag aaacttccag cctatgagca ggcaggtgggt tgatgaggtt 300
aattacactg actacaaagc cgtcacctta ccataccaac acaacaactc tggcttgta 360
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ctcatcgaa 430

<210> 36
<211> 430
<212> DNA
<213> Adenovirus

<220>
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<223> isolate M5-1s

<400> 36
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gacggggaaag ggtacaatgt ggccaaatgt aacatgacca aagactgggt cctggttcag 180
atgcttgcca actacaacat tggctaccag ggcttttaca tccctgaggg atacaaggat 240
cgcatgtact ccttttcag aaacttccag cctatgagca ggcaggtgggt tgatgaggtt 300
aattacactg actacaaagc cgtcacctta ccataccaac acaacaactc tggcttgta 360
gggtatcttgcacctactat gagacaaggga gaaccttacc cagccaaattha tccatacccg 420
ctcatcgaa 430

<210> 37
<211> 430
<212> DNA
<213> Adenovirus

<220>
<221> misc_feature
<223> isolate M6-1s

<400> 37
ggcacctttt accttaacca cacttcaag aaggtctcca tcatgttga ctccctcagtc 60
agctggcctg gcaatgacag gctgttgct ccaaatgagt ttgaaatcaa gcgcactgtg 120
gatgggaaag gatacaatgt ggcccaatgc aacatgacca aagactgggt cctggttcag 180
atgcttgcca actacaacat tggctaccag ggctttaca tccctgaggg atacaaggat 240
cgcatgtact ctttttcag aaacttccag cctatgagca ggcaggtgg tcatgagg 300
aattacactg actacaaagc cgtcacctta ccataatcaac acaacaactc tggcttgta 360
ggatacctg cgcctactat gagacaaggg gaaccttacc cagccaaatta tccatacccg 420
ctcatcgaa 430

<210> 38
<211> 430
<212> DNA
<213> Adenovirus

<220>
<221> misc_feature
<223> isolate M7-1s

<400> 38
ggcaccttct accttaacca cacttcaag aaggtctcca tcatgttga ctccctcagtc 60
agctggcctg gcaatgacag gctgttgagc ccaaatgagt ttgaaatcaa gcgcactgtg 120
gacgggaaag gatacaacgt ggccacaatgc aacatgacca aagactgggt cctagttcag 180
atgcttgcca actacaacat tggctaccag ggctttaca tccctgaggg atacaaggat 240
cgcatgtact ctttttcag aaacttccag cctatgagca ggcaggtgg tcatgagg 300
aattacactg actacaaagc cgtcacctta ccataccaac acaacaactc tggcttgta 360
gggtacctg cacctactat gagacaaggg gaaccttacc cagccaaatta tccatacccg 420
ctcatcgaa 430

<210> 39
<211> 430
<212> DNA
<213> Adenovirus

<220>
<221> misc_feature
<223> isolate M8-2s

<400> 39
ggcaccttct accttaacca cacttcaag aaggtctcca tcatgttga ctccctcagtc 60

agctggcctg gcaatgacag gctgttgc ccaaattgagt ttgaaatcaa gcgcactgtg 120
gacgggaaag gatacaacgt ggcacaatgc aacatgacca aagactgggt cctagttcag 180
atgcttgcctt actacaacat tggctaccag ggcttttaca tccctgaggg atacaaggat 240
cgcatgtact ctttttcag aaacttccag cctacgagca ggcaggtgg tcatgaggtt 300
aattacactg actacaacaaacg cgtcacctt ccataccaac acaacaactc tggctttgtt 360
gggtaccttggcacctactat gagacaaggg gaaccttacc cggccaaattt tccataccgg 420
ctcatcgaa 430

<210> 40
<211> 430
<212> DNA
<213> Adenovirus

<220>
<221> misc_feature
<223> isolate M9-2s

<400> 40
ggcaccttctt accttaacca cactttcaag aaggttccca tcatgttttttga ctcctcagtc 60
agctggcctg gcaatgacag gctgttgc ccaaattgagt ttgaaatcaa gcgcactgtg 120
gacgggaaag gatacaacgt ggcacaatgc aacatgacca aagactgggt cctagttcag 180
atgcttgcctt actacaacat tggctaccag ggcttttaca tccctgaggg atacaaggat 240
cgcatgtact ctttttcag aaacttccag cctatgagca ggcaggtgg tcatgaggtt 300
aattacactg actacaacaaacg cgtcacctt ccataccaac acaacaactc tggctttgtt 360
gggtaccttggcacctactat gagacaaggg gaaccttacc cggccaaattt tccataccgg 420
ctcatcgaa 430

<210> 41
<211> 143
<212> PRT
<213> Adenovirus: isolate M2-3s

<400> 41
Gly Thr Phe Tyr Leu Asn His Thr Phe Lys Lys Val Ser Ile Met Phe
1 5 10 15

Asp Ser Ser Val Ser Trp Pro Gly Asn Asp Arg Leu Leu Ser Pro Asn
20 25 30

Glu Phe Glu Ile Lys Arg Thr Val Asp Gly Glu Gly Tyr Asn Val Ala
35 40 45

Gln Cys Asn Met Thr Lys Asp Trp Phe Leu Val Gln Met Leu Ala Asn
50 55 60

Tyr Asn Ile Gly Tyr Gln Gly Phe Tyr Ile Pro Glu Gly Tyr Lys Asp

65 70 75 80

Arg Met Tyr Ser Phe Phe Arg Asn Phe Gln Pro Met Ser Arg Gln Val
85 90 95

Val Asp Glu Val Asn Tyr Thr Asp Tyr Lys Ala Val Thr Leu Pro Tyr
100 105 110

Lys His Asn Asn Ser Gly Phe Val Gly Tyr Leu Ala Pro Thr Met Arg
115 120 125

Gln Gly Glu Pro Tyr Pro Ala Asn Tyr Pro Tyr Pro Leu Ile Gly
130 135 140

<210> 42

<211> 143

<212> PRT

<213> Adenovirus: isolate M5-1s

<400> 42

Gly Thr Phe Tyr Leu Asn His Thr Phe Lys Lys Val Ser Ile Met Phe
1 5 10 15

Asp Ser Ser Val Ser Trp Pro Gly Asn Asp Arg Leu Leu Ser Pro Asn
20 25 30

Glu Phe Glu Ile Lys Arg Thr Val Asp Gly Glu Gly Tyr Asn Val Ala
35 40 45

Gln Cys Asn Met Thr Lys Asp Trp Phe Leu Val Gln Met Leu Ala Asn
50 55 60

Tyr Asn Ile Gly Tyr Gln Gly Phe Tyr Ile Pro Glu Gly Tyr Lys Asp
65 70 75 80

Arg Met Tyr Ser Phe Phe Arg Asn Phe Gln Pro Met Ser Arg Gln Val
85 90 95

Val Asp Glu Val Asn Tyr Thr Asp Tyr Lys Ala Val Thr Leu Pro Tyr
100 105 110

Lys His Asn Asn Ser Gly Phe Val Gly Tyr Leu Ala Pro Thr Met Arg
115 120 125

Gln Gly Glu Pro Tyr Pro Ala Asn Tyr Pro Tyr Pro Leu Ile Gly
130 135 140

<210> 43

<211> 143

<212> PRT

<213> Adenovirus: isolate M6-1s

<400> 43

Gly Thr Phe Tyr Leu Asn His Thr Phe Lys Lys Val Ser Ile Met Phe
1 5 10 15

Asp Ser Ser Val Ser Trp Pro Gly Asn Asp Arg Leu Leu Ser Pro Asn
20 25 30

Glu Phe Glu Ile Lys Arg Thr Val Asp Gly Glu Gly Tyr Asn Val Ala

35

40

45

Gln Cys Asn Met Thr Lys Asp Trp Phe Leu Val Gln Met Leu Ala Asn
50 55 60

Tyr Asn Ile Gly Tyr Gln Gly Phe Tyr Ile Pro Glu Gly Tyr Lys Asp
65 70 75 80

Arg Met Tyr Ser Phe Phe Arg Asn Phe Gln Pro Met Ser Arg Gln Val
85 90 95

Val Asp Glu Val Asn Tyr Thr Asp Tyr Lys Ala Val Thr Leu Pro Tyr
100 105 110

Lys His Asn Asn Ser Gly Phe Val Gly Tyr Leu Ala Pro Thr Met Arg
115 120 125

Gln Gly Glu Pro Tyr Pro Ala Asn Tyr Pro Tyr Pro Leu Ile Gly
130 135 140

<210> 44

<211> 143

<212> PRT

<213> Adenovirus: isolate M7-1s

<400> 44

Gly Thr Phe Tyr Leu Asn His Thr Phe Lys Lys Val Ser Ile Met Phe
1 5 10 15

Asp Ser Ser Val Ser Trp Pro Gly Asn Asp Arg Leu Leu Ser Pro Asn
20 25 30

Glu Phe Glu Ile Lys Arg Thr Val Asp Gly Glu Gly Tyr Asn Val Ala
35 40 45

Gln Cys Asn Met Thr Lys Asp Trp Phe Leu Val Gln Met Leu Ala Asn
50 55 60

Tyr Asn Ile Gly Tyr Gln Gly Phe Tyr Ile Pro Glu Gly Tyr Lys Asp
65 70 75 80

Arg Met Tyr Ser Phe Phe Arg Asn Phe Gln Pro Met Ser Arg Gln Val
85 90 95

Val Asp Glu Val Asn Tyr Thr Asp Tyr Lys Ala Val Thr Leu Pro Tyr
100 105 110

Lys His Asn Asn Ser Gly Phe Val Gly Tyr Leu Ala Pro Thr Met Arg
115 120 125

Gln Gly Glu Pro Tyr Pro Ala Asn Tyr Pro Tyr Pro Leu Ile Gly
130 135 140

<210> 45

<211> 143

<212> PRT

<213> Adenovirus: isolate M8-2s

<400> 45

Gly Thr Phe Tyr Leu Asn His Thr Phe Lys Lys Val Ser Ile Met Phe
1 5 10 15

Asp Ser Ser Val Ser Trp Pro Gly Asn Asp Arg Leu Leu Ser Pro Asn
20 25 30

Glu Phe Glu Ile Lys Arg Thr Val Asp Gly Glu Gly Tyr Asn Val Ala
35 40 45

Gln Cys Asn Met Thr Lys Asp Trp Phe Leu Val Gln Met Leu Ala Asn
50 55 60

Tyr Asn Ile Gly Tyr Gln Gly Phe Tyr Ile Pro Glu Gly Tyr Lys Asp
65 70 75 80

Arg Met Tyr Ser Phe Phe Arg Asn Phe Gln Pro Thr Ser Arg Gln Val
85 90 95

Val Asp Glu Val Asn Tyr Thr Asp Tyr Lys Ala Val Thr Leu Pro Tyr
100 105 110

Lys His Asn Asn Ser Gly Phe Val Gly Tyr Leu Ala Pro Thr Met Arg
115 120 125

Gln Gly Glu Pro Tyr Pro Ala Asn Tyr Pro Tyr Pro Leu Ile Gly
130 135 140

<210> 46
<211> 143
<212> PRT
<213> Adenovirus: isolate M9-2s

<400> 46
Gly Thr Phe Tyr Leu Asn His Thr Phe Lys Lys Val Ser Ile Met Phe
1 5 10 15

Asp Ser Ser Val Ser Trp Pro Gly Asn Asp Arg Leu Leu Ser Pro Asn
20 25 30

Glu Phe Glu Ile Lys Arg Thr Val Asp Gly Glu Gly Tyr Asn Val Ala
35 40 45

Gln Cys Asn Met Thr Lys Asp Trp Phe Leu Val Gln Met Leu Ala Asn
50 55 60

Tyr Asn Ile Gly Tyr Gln Gly Phe Tyr Ile Pro Glu Gly Tyr Lys Asp
65 70 75 80

Arg Met Tyr Ser Phe Phe Arg Asn Phe Gln Pro Met Ser Arg Gln Val
85 90 95

Val Asp Glu Val Asn Tyr Thr Asp Tyr Lys Ala Val Thr Leu Pro Tyr
100 105 110

Lys His Asn Asn Ser Gly Phe Val Gly Tyr Leu Ala Pro Thr Met Arg
115 120 125

Gln Gly Glu Pro Tyr Pro Ala Asn Tyr Pro Tyr Pro Leu Ile Gly
130 135 140

<210> 47
<211> 720

<212> DNA
<213> Adenovirus

<220>
<221> misc_feature
<223> promoter sequence of the adenoviral protein E1A (as shown in fig.
5)

<400> 47
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aaaagtgcgc gctgtgttgt gattggctgt ggggtgaatg actaacatgg gcggggcggc 120
cgtggaaaaa tgacgtgact tatgtggag gagttatgtt gcaagttatt gcggtaatg 180
tgacgtaaaa ggaggtgtgg tttgaacacg gaagtagaca gttttccac gcttacttgt 240
aggatatgag gtagtttgg gcggatgcaa gtgaaaattc tccatttcg cgcgaaaact 300
gaatgaggaa gtgaatttct gagtcatttc gcggttatga cagggtgtggag tatttgcga 360
ggcccgagta gactttgacc gtttacgtgg aggtttcgat taccgtgtt ttcaccta 420
tttccgcgta cggtgtcaaa gtcctgtgtt tttacgtagg tgtcagctga tcgctagggt 480
atttaaacct gacgagttcc gtcaagaggc cactctttag tgccagcgc aagagtttc 540
tcctccgcgc cgcaagtcag ttctgcgc tt tgaaaatgag acacctgcgc ttccctgccac 600
aggagattat ctccagttag accgggatcg aaatactgga gtttgtggta aataccctaa 660
tgggagacga cccggaaccg ccagtgcgc ctggatcc acctacgctg cacgatctgt 720